

**Table 1 -- Relative Stringency of Water Quality Criteria  
(micrograms/liter)**

*The standards have been established for aquatic life protection unless noted otherwise*

| Constituent              | 1983 Standards | EPA Proposed Standards (4-day averages) <sup>1</sup> | COP Standards (6-month medians) | Converted COP (4-day averages) | EPA/Converted COP | Relative Stringency |
|--------------------------|----------------|--|---------------------------------|--------------------------------|-------------------|---------------------|
| Ammonia                  | na             | 1,300  | 600                             | 617.7378085                    | 2.104452702       | COP                 |
| Arsenic                  | 32             | 36   | 8                               | 8.236504113                    | 4.370786381       | COP                 |
| Cadmium                  | 12             | 9.3  | 1                               | 1.023385636                    | 9.08748342        | COP                 |
| Copper                   | 20             | 3.1  | 3                               | 2.563611905                    | 1.209231395       | COP                 |
| Cyanide                  | 20             | 1  | 1                               | 1.029563014                    | 0.971285862       | EPA                 |
| Lead                     | 32             | 8.1  | 2                               | 1.958228853                    | 4.136390896       | COP                 |
| Manganese                | na             | 100**  | na                              | na                             | na                | EPA****             |
| Mercury                  | 0.56           | 0.051  | 0.04                            | 0.035005142                    | 1.456928794       | COP                 |
| Nickel                   | 80             | 8.2  | 5                               | 5.09633692                     | 1.608998802       | COP                 |
| Selenium                 | na             | 71   | 15                              | 15.41255832                    | 4.606633015       | COP                 |
| Silver                   | 1.8            | 1.9  | 0.7                             | 0.612589993                    | 3.101585107       | COP                 |
| Zinc                     | 80             | 81   | 20                              | 19.47933223                    | 4.158253428       | COP                 |
| Benzene                  | na             | 71**   | 5.9***                          | na                             | na                | COP                 |
| Benzo (a) Anthracene     | na             | 0.049**  | na                              | na                             | na                | EPA****             |
| Benzo (a) Pyrene         | na             | 0.049**  | na                              | na                             | na                | EPA****             |
| Chrysene                 | na             | 0.049**  | na                              | na                             | na                | EPA****             |
| Benzo (k) Flouranthene   | na             | 0.049**  | na                              | na                             | na                | EPA****             |
| Benzo (b) Flouranthene   | na             | 0.049**  | na                              | na                             | na                | EPA****             |
| Dibenzo (a,h) Anthracene | na             | 0.049**  | na                              | na                             | na                | EPA****             |
| Hexavalent Chromium      | 8              | 50   | 2                               | 2.044712146                    | 24.4533198        | COP                 |
| Phenolic Compounds       | 120            | 4,600,000**  | 30                              | 30.88689042                    | na                | EPA*                |
| Toluene                  | na             | 200,000**  | 85,000***                       | na                             | na                | COP                 |
| Ethylbenzene             | na             | 29,000**   | 4,100***                        | na                             | na                | COP                 |
| Naphthalene              | na             | na   | na                              | na                             | na                | na                  |
| 2,4-Dimethylphenol       | na             | 2,300**  | na                              | na                             | na                | EPA****             |
| Undissociated Sulfides   | na             | 2  | na                              | na                             | na                | EPA****             |
| Whole Effluent Toxicity  | na             | 1TUc   | na                              | na                             | na                | EPA****             |

\* The EPA standard for phenol is a human health-based lifetime average, while that from the COP is based on the protection of aquatic life, and therefore, no direct comparison can be made.

\*\* Human health-based lifetime average

\*\*\* Human health-based 30-day average

\*\*\*\* No COP equivalent proposed

<sup>1</sup> Applicable at the edge of the 100-meter mixing zone.